C. J. DUERRWACHTER.

CULVERT.

APPLICATION FILED MAY 10, 1915.

1,184,634. Patented May 23, 1916.

FIG. 1.

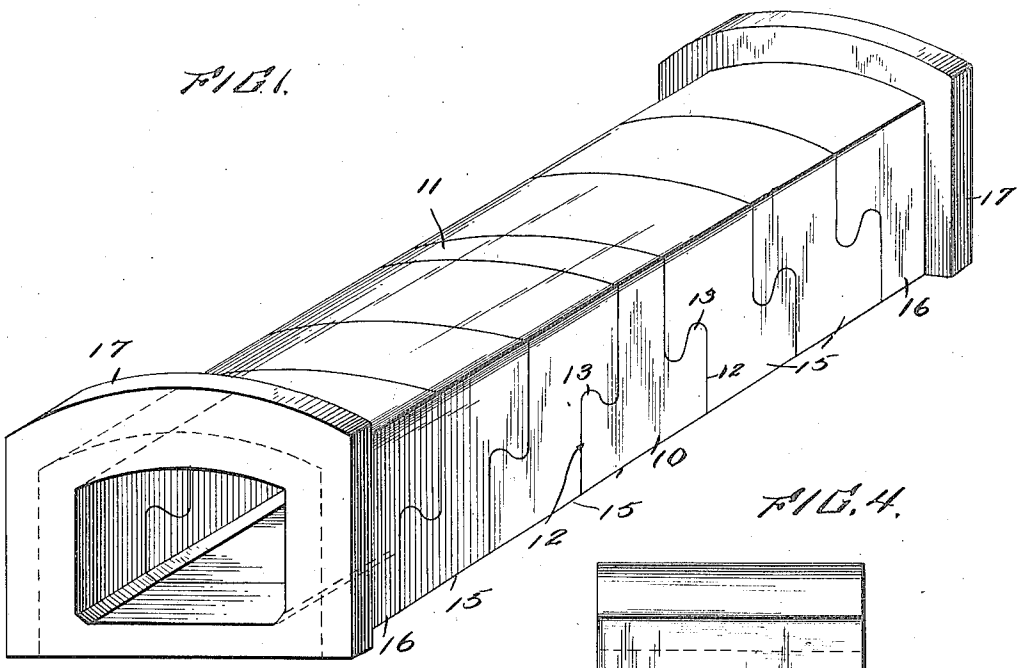


FIG. 4.

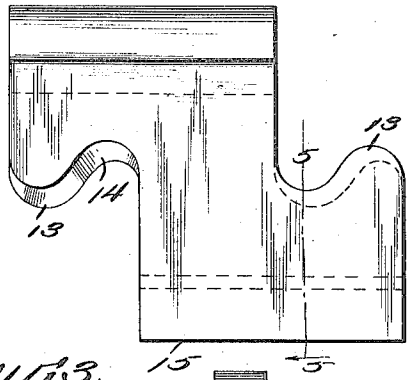


FIG. 3.

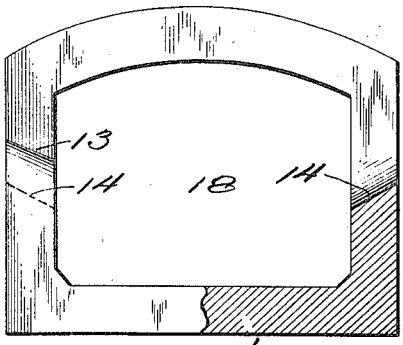
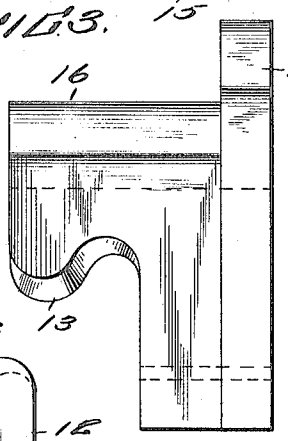
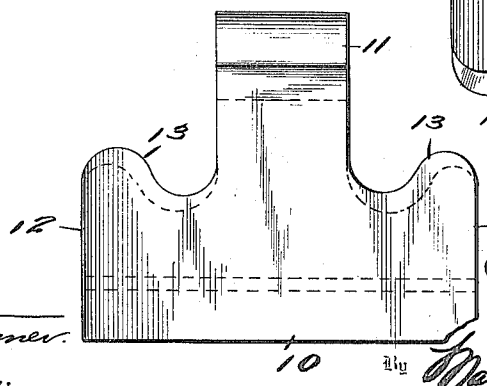


FIG. 5.

FIG. 2.





Witnesses

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CULVERT.

1,184,634. Specification of Letters Patent. Patented May 23, 1916.

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To all whom it may concern:

Be it known that I, CHRIST J. DUERRWACHTER, a citizen of the United States, residing at Red Lodge, in the county of Carbon and State of Montana, have invented certain new and useful Improvements in Culverts; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to culverts, and has for an object to provide a culvert made up of improved sections for producing a completed culvert of any desired length by using a greater or less number of the sections.

A further object of the invention is to provide a culvert having a central or key section with end or portal sections, and with any approved or desired number of intermediate sections between the key and the portal sections.

A further object of the invention is to provide improved means for locking together the several sections of the culvert.

With these and other objects in view the invention consists in certain novel features of construction, combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawings:—Figure 1 is a perspective view of the completed culvert embodying the sections entering into this invention. Fig. 2 is a view in side elevation of the key section. Fig. 3 is a view in side elevation of one of the portal sections. Fig. 4 is a view in side elevation of one of the intermediate sections. Fig. 5 is a view partly in end elevation and partly in section taken on line 5—5 of Fig. 4, showing one of the intermediate sections.

Like characters of reference designate corresponding parts throughout the several views.

The improved culvert which forms the subject-matter of this application is made up of a key section, shown as a whole at 10, which comprises a narrow top or arch portion 11 and extensions 12, such extensions being connected by the narrowed or arch portion 11 by ogee shoulders 13. It will be noted that the ogee shoulders 13 have their surfaces disposed at angles to the plane of the base as shown more particularly at Fig. 5, the inclination being designated as 14.

Upon opposite sides of the key section 10, intermediate sections 15 are employed having ogee shoulders complementary to the ogee shoulders of the key section, and adapted to interengage therewith as shown at Fig. 1. The intermediate sections are provided with the ogee shoulders upon opposite sides so that any number of such intermediate sections may be connected together by simply interengaging the ogee shoulders.

At the ends portal sections 16 are employed having ogee shoulders also interengaging with the ogee shoulders of the intermediate sections, and preferably, though not necessarily, a flange 17 extending beyond the top of the opposite sides of such portal sections.

It is obvious that all of the sections will be provided with registering openings 18 which may be of any approved style or shape, one shape and style being shown at Fig. 5.

It is obvious that in each complete culvert construction one of the key sections 10 and two of the portal sections 16 will be employed, and that the number of the intermediate sections 15 will be determined by the length of the completed culvert required, and any number of such intermediate sections may be employed, an equal number being upon opposite sides of the key section or an uneven number, as circumstances may require. It is also obvious that the inclination 14 will prevent lateral displacement of any one of the blocks relative to the other blocks, and that when put in position they will be retained in such position with all the inherent strength of the material.

I claim:—

1. A culvert comprising a central key section, end portal sections, and intermediate sections interlocking with the central key section and the portal sections, said key section and intermediate sections being provided with interlocking members each having the form of a compound curve and being beveled at the curved portion.

2. A culvert comprising a key section; and portal sections spaced apart, each of said sections having complementary locking shoulders; and intermediate sections

having locking shoulders complementary to the locking shoulders of the portal sections and the key section, said shoulders being beveled in one direction and curved in a direction transversely thereof.

3. An article of manufacture comprising a tubular member provided on opposite sides with projecting locking devices, each having the form of a beveled compound curve, said curved devices at a given end being reversely beveled with respect to each other.

4. An article of manufacture comprising a member provided on opposite sides and opposite ends with projecting locking devices, each having the form of a beveled compound curve, the locking devices on a given side being reversely positioned with respect to each other, and those on a given end being reversely beveled with respect to each other.

In testimony whereof I affix my signature in presence of two witnesses.

CHRIST J. DUERRWACHTER.

Witnesses:

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